ASYNCHRONOUS COMPLETION NOTIFICATION FOR AN

RDMA SYSTEM

ABSTRACT OF THE INVENTION

A system and method of implementing asynchronous completion notification in

an RDMA (remote data memory access) network interface card (RNIC). The method

includes the steps of: storing a first CQE number of a most recent CQE placed into the

CQ; storing a second CQE number of a most recent CQE retrieved from the CQ; issuing

a request for completion notification; packaging the second CQE number with the

request; and processing the request, wherein the processing step compares the first CQE

number with the second CQE number to determine whether asynchronous completion

notification should be immediately performed.